

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004503

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B31/00 E21B28/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 890 682 A (WORRALL ROBERT N ET AL) 2 January 1990 (1990-01-02) column 1, line 10 - column 2, line 54; figure 1	1-3, 6-8, 48, 49
Y	the whole document	4, 5, 50-79
Y	column 2, line 55 - column 3, line 59	50-79
Y	US 2003/168212 A1 (IVANNIKOV VLADIMIR IVANNOVICH ET AL) 11 September 2003 (2003-09-11) the whole document	4, 5
A	GB 2 343 465 A (ANDERGAUGE LTD) 10 May 2000 (2000-05-10) the whole document	1, 48-50

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the International filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the International search

20 December 2004

Date of mailing of the International search report

28/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Morrish, S

INTERNATIONAL SEARCH REPORT

In
 national Applications No
 PCT/GB2004/00 4503

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4890682	A	02-01-1990	CA 1319675 C DE 3776959 D1 EP 0245892 A2	29-06-1993 09-04-1992 19-11-1987
US 2003168212	A1	11-09-2003	RU 2235187 C2 AU 6445201 A WO 0188329 A1	27-08-2004 26-11-2001 22-11-2001
GB 2343465	A	10-05-2000	NONE	